

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

1. (Currently Amended): A method for decomposing a nonmetallic honeycomb panel by processing crushed pieces of the nonmetallic honeycomb panel together with a process water under a high temperature and high pressure condition for a predetermined length of time to decompose said nonmetallic honeycomb panel into components, wherein the nonmetallic honeycomb panel comprises aromatic polyamide and halogen components, said method comprising:

a first step of performing treatment for a predetermined length of time with said process water brought to a subcritical range, said process water being either water or alkali-added water; and

a second step of performing treatment for a predetermined length of time with said process water brought to a supercritical range;

wherein an aromatic polyamide is hydrolyzed and separated during said first step, and dehalogenation is carried out during said second step.

2. (Original): The method for decomposing a nonmetallic honeycomb panel according to claim 1, wherein when said second step is completed, said nonmetallic honeycomb panel is separated into a decomposition product and a glass fiber.

3. (Currently Amended): A method for recycling a nonmetallic honeycomb panel, wherein the nonmetallic honeycomb panel comprises aromatic polyamide and halogen components, said method comprising:

a step of decomposing said nonmetallic honeycomb panel into components by crushing said nonmetallic honeycomb panel and treating said crushed panel together with a process water under a high temperature and high pressure condition for a predetermined length of time; and

a step of separating a glass fiber from a decomposition product obtained by said decomposing step, wherein said glass fiber is recycled, and a residue remaining after separating said glass fiber from said decomposition product is used as fuel.

4. (Original): The method for recycling a nonmetallic honeycomb panel according to claim 3, wherein said decomposing step comprises a first step of performing treatment for a predetermined length of time with said process water brought to a subcritical range, and a second step of performing treatment for a predetermined length of time with said process water brought to a supercritical range;

wherein an aromatic polyamide is hydrolyzed and separated during said first step, and dehalogenation is carried out during said second step; and when said second step is completed, said nonmetallic honeycomb panel is separated into said decomposition product and said glass fiber.

5. (New): The method for decomposing a nonmetallic honeycomb panel according to claim 1, wherein said first step is performed for a predetermined length of time of about 30 minutes and said process water is brought to a subcritical range of about 200 to 350 °C and 1.5 to 17 MPa, and said second step is performed for a predetermined length of time of about 30 minutes.

6. (New): The method for recycling a nonmetallic honeycomb panel according to claim 4, wherein said first step is performed for a predetermined length of time of about 30 minutes and said process water is brought to a subcritical range of about 200 to 350 °C and 1.5 to 17 MPa, and said second step is performed for a predetermined length of time of about 30 minutes.